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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,888	10/24/2005	Tadashi Hibino	Q91007	4654
23373 SUGHRUE M	7590 06/01/2007	Tadashi Hibino Q91007 EXAMINER BOSWELL, CHRISTOP ART UNIT PA 3676	INER	
2100 PENNSYLVANIA AVENUE, N.W.			BOSWELL, CHRISTOPHER J	
SUITE 800 WASHINGTO	N. DC 20037	,	ART UNIT	PAPER NUMBER
			3676	
			MAIL DATE	DELIVERY MODE
			06/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
	•	10/553,888	HIBINO ET AL.			
0	ffice Action Summary	Examiner	Art Unit			
	·	Christopher Boswell	3676			
The Period for Rep	MAILING DATE of this communication app bly	ears on the cover sheet with the c	correspondence address			
WHICHEV - Extensions of after SIX (6) - If NO period - Failure to rep Any reply rec	ENED STATUTORY PERIOD FOR REPLY ER IS LONGER, FROM THE MAILING DAIN of time may be available under the provisions of 37 CFR 1.13 MONTHS from the mailing date of this communication. For reply is specified above, the maximum statutory period we provided by within the set or extended period for reply will, by statute, believed by the Office later than three months after the mailing at term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from 1, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)☐ Resp	onsive to communication(s) filed on	<u>.</u> .	•			
,	This action is FINAL . 2b)⊠ This action is non-final.					
•						
close	ed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of	Claims					
4a) O 5) ☐ Clain 6) ☑ Clain 7) ☐ Clain	n(s) <u>1-18</u> is/are pending in the application. If the above claim(s) is/are withdrav n(s) is/are allowed. n(s) <u>1-18</u> is/are rejected. n(s) is/are objected to. n(s) are subject to restriction and/or	vn from consideration.				
Application Pa	apers					
10)⊠ The d Appli Repla	pecification is objected to by the Examine pecification is objected to by the Examine per per per per per per per per per pe	a) \square accepted or b) \square objected drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under	35 U.S.C. § 119					
a)⊠ All 1.⊠ 2.⊟ 3.⊟	Certified copies of the priority documents Certified copies of the priority documents	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachmont/s\			·			
2) Notice of Dr 3) Information	eferences Cited (PTO-892) aftsperson's Patent Drawing Review (PTO-948) Disclosure Statement(s) (PTO/SB/08) //Mail Date 10/24/05.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 12 and 13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 12 and 13, the phrase "such as" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-13, and 16-18 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent Number 5.685,180 to Qualters et al.

Qualters et al. disclose a steering locking device comprising a locking device

(components held within housing 5) for automatically locking a steering shaft (1) when a key

(20) of an ignition switch (15) is withdrawn in a state in which the key is withdrawable (column

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4, lines 3-13), wherein a key mechanism section (14) and the locking device of the ignition switch are provided separately (figures 2 and 4), and the locking device is provided at any portion on an output shaft (shaft on which gear 4 is mounted) of a steering wheel (3) extending from the steering wheel to a steering gear section (4), as in claim 1.

Qualters et al. also disclose the locking device is provided at the steering gear section having a rack & pinion mechanism (4 and 8), as in claim 2, wherein the locking device is provided on a lower side of a rack shaft (4) near a lower end of the pinion shaft of the steering gear section (figure 4), as in claim 7, and the locking device is provided about a pinion shaft (6) of the steering gear section, as in claim 3, wherein the locking device is provided on a lower side of a rack shaft (8) near a lower end of the pinion shaft of the steering gear section (figures 2 and 5), as in claim 8, as well as the locking device is provided on a side of an output shaft (6) of a speed reduction unit (4 and 8) of a column-type electric power steering apparatus, as in claim 4, wherein the locking device is provided on the output shaft of the speed reduction unit (figures 2 and 5), as in claim 5, and the locking device is provided on a yoke (5) connected to the output shaft of the speed reduction unit, as in claim 6.

Qualters et al. further discloses the locking device is integrally formed with the steering gear section (figures 2 and 5), as in claims 9-11, and the locking device has a key lock collar (5), the key lock collar is formed on an output shaft of the steering wheel via a ring member (the collar that retains housing 5 on the steering shaft), as in claims 12 and 13, as well as a groove for a key lock (14) is formed to an output shaft of the steering wheel, as in claims 16 and 17, and where the locking device electrically makes a lock pin (6) reciprocate based on a key information supplied via a harness connector (column 4, lines 3-13), as in claim 18.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Qualters et al., as applied above, in view of U.S. Patent Number 6,237,376 to Surratt.

Qualters et al. discloses the invention substantially as claimed. However, Qualters et al. does not disclose the key lock collar being welded to the output shaft. Surratt teaches of a steering assembly lock (20) being welded (column 3, lines 19-20) to a housing (12) in the analogous art of rotating shaft locking assemblies for the purpose of securely affixing the key lock collar onto the output shaft. It would have been obvious to one with ordinary skill in the art at the time the invention was made to weld the key lock collar of Qualters et al. to the output shaft of the steering wheel, as taught by Surratt in order to securely affix the key lock collar onto the output shaft. Wherein the limitation that the key lock collar being welded to the output shaft is considered a product by process type limitation, wherein Qualters et al. discloses that same physical structure as claimed.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to further show the state of the art with respect to steering shaft locking assemblies:

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U.S. Patent Number 6,327,882 to Canard, U.S. Patent Number 5,951,031 to Shimizu et al., U.S. Patent Number 5,121,616 to Rind, U.S. Patent Number 5,117,664 to Kurozu et al., U.S. Patent Number 4,991,458 to Stuedemann, U.S. Patent Number 4,427,967 to Maiocco, U.S. Patent Number 4,400,954 to Nakamoto et al., U.S. Patent Number 4,332,306 to Turatti, U.S. Patent Number 4,250,976 to Mochida, U.S. Patent Number 3,426,560 to Dwan.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Boswell whose telephone number is (571) 272-7054. The examiner can normally be reached on 9:00 - 4:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Glessner can be reached on (571) 272-6843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christopher Boswell

Examiner Art Unit 3676